

CLAIMS

1. A composition for promoting passive extension of bladder smooth muscle, comprising adrenomedullin.

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2. A composition according to claim 1, used to ameliorate a urination disorder.

3. A composition according to claim 2, wherein the urination disorder is a urinary incontinence selected from the group consisting of urge incontinence, reflex incontinence, and overflow incontinence.

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4. A composition according to claim 1, wherein the adrenomedullin is:

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(a) a peptide comprising an amino acid sequence from Ser in position 13 to Tyr in position 52 of SEQ ID NO: 2 in SEQUENCE LISTING; or

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(b) a peptide comprising an amino acid sequence having one or several amino acid deleted, substituted, or added in the amino acid sequence (a), and having an action of promoting extension of bladder smooth muscle.

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5. A composition according to claim 4, wherein the adrenomedullin is:

(c) a peptide comprising an amino acid sequence from Tyr in position 1 to Tyr in position 52 of SEQ ID NO: 2 in SEQUENCE LISTING; or

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(d) a peptide comprising an amino acid sequence having one or several amino acid deleted, substituted, or added in the amino acid sequence (c), and having an action of promoting extension of bladder smooth muscle.

6. A composition according to claim 5, wherein the adrenomedullin is:

5 (e) a peptide comprising an amino acid sequence from Ala in position -73 to Tyr in position 52 of SEQ ID NO: 2 in SEQUENCE LISTING; or

10 (f) a peptide comprising an amino acid sequence having one or several amino acid deleted, substituted, or added in the amino acid sequence (e), and having an action of promoting extension of bladder smooth muscle.

7. A composition according to claim 6, wherein the adrenomedullin is:

15 (g) a peptide comprising an amino acid sequence from Met in position -94 to Leu in position 91 of SEQ ID NO: 2 in SEQUENCE LISTING; or

20 (h) a peptide comprising an amino acid sequence having one or several amino acid deleted, substituted, or added in the amino acid sequence (g), and having an action of promoting extension of bladder smooth muscle.

8. A composition according to any of claims 1 and 4 to 7, wherein the C-terminus of the adrenomedullin is amidated.

25 9. A composition according to any of claims 1 and 4 to 7, wherein Gly is added to the C-terminus of the adrenomedullin.

30 10. A composition according to any of claims 1 and 4 to 7, wherein in the adrenomedullin, Cys in position 16 and Cys in position 21 of SEQ ID NO: 2 in SEQUENCE LISTING are crosslinked.

11. A composition according to claim 10, wherein the crosslink is a disulfide bond.

FOOTNOTES

12. A composition according to claim 10, wherein the crosslink is a  $-\text{CH}_2-\text{CH}_2-$  bond.

9/B2/ 5 13. A method for ameliorating a urination disorder using a composition comprising adrenomedullin.

14. Use of adrenomedullin in production of a drug for ameliorating a urination disorder.

add B3/